

GIGABYTE AORUS MASTER 16 BYHC5FRE65SP laptop Intel Core Ultra 9 275HX 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Pro French Black

Brand : GIGABYTE

Product code: AORUS MASTER 16
BYHC5FRE65SP

Product name : AORUS MASTER 16 BYHC5FRE65SP

GIGABYTE AORUS MASTER 16 BYHC5FRE65SP. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel® Graphics, Discrete graphics card model: NVIDIA GeForce RTX 5080. Operating system installed: Windows 11 Pro. Product colour: Black



Design		Graphics	
Colour name	Dark Tide	On-board graphics card *	✓
Product type *	Laptop	On-board GPU manufacturer	Intel
Product colour *	Black	Discrete graphics card *	✓
Form factor *	Clamshell	On-board graphics card family	Intel® Graphics
Introduction year	2025	On-board graphics card model *	Intel® Graphics
Country of origin	Taiwan		
Original brand name	GIGABYTE		
Display		Audio	
Display diagonal *	40.6 cm (16")	Audio system	Dolby Atmos
Display resolution *	2560 x 1600 pixels	Number of built-in speakers	4
Touchscreen *	✗	Speaker power	2 W
HD type	WQXGA	Built-in microphone	✓
Panel type	OLED		
Native aspect ratio	16:10	Camera	
Maximum display brightness (HDR)	500 cd/m²	Front camera	✓
RGB colour space	DCI-P3	Front camera resolution	1920 x 1080 pixels
Colour gamut	100%	Front camera HD type	Full HD
Maximum refresh rate	240 Hz	Infrared (IR) camera	✓
Contrast ratio (typical)	1000000:1		
High Dynamic Range (HDR) supported	✓	Network	
High Dynamic Range (HDR) technology	DisplayHDR True Black 500	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
		Wi-Fi standards	Wi-Fi 7 (802.11be)
Processor		Mobile network connection *	✗
Processor manufacturer *	Intel	Ethernet LAN	✓
Processor family *	Intel Core Ultra 9	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor generation	Intel Core Ultra (Series 2)	Bluetooth	✓
Processor model *	275HX	Bluetooth version	5.4
		Ports & interfaces	
		USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2

Processor		Ports & interfaces	
Processor cores	24	Ethernet LAN (RJ-45) ports	1
Processor threads	24	HDMI ports quantity *	1
Processor boost frequency	5.4 GHz	HDMI version	2.1
Performance cores	8	Thunderbolt 4 ports quantity	1
Efficient cores	16	Thunderbolt 5 ports quantity	1
Performance-core Max Turbo Frequency	5.4 GHz	Intel® Thunderbolt 4	✓
Efficient-core Max Turbo Frequency	4.6 GHz	Intel® Thunderbolt 5	✓
Performance-core base frequency	2.7 GHz	Combo headphone/mic port	✓
Efficient-core base frequency	2.1 GHz	USB Type-C DisplayPort Alternate Mode	✓
Processor cache	36 MB	Performance	
Processor base power	55 W	Repairability index	6.1
Maximum turbo power	160 W	Keyboard	
Neural processor unit (NPU)		Pointing device	Touchpad
Neural processor unit (NPU)	Intel AI Boost	Numeric keypad *	✗
Sparsity support	✓	Keyboard backlit	✓
Windows Studio effects support	✓	Keyboard backlit colour	RGB
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard backlit zone	3-zone RGB
Total processor performance up to	36 TOPs	Keyboard layout	AZERTY
NPU performance up to	13 TOPs	Keyboard language	French
GPU performance up to	8 TOPs	Software	
Memory		Operating system installed *	Windows 11 Pro
Internal memory *	32 GB	Battery	
Internal memory type	DDR5-SDRAM	Battery technology	Lithium Polymer (LiPo)
Memory clock speed	5600 MHz	Number of battery cells	4
Memory layout (slots x size)	2 x 16 GB	Battery capacity *	99 Wh
Memory slots	2x SO-DIMM	Battery weight	338 g
Maximum internal memory *	64 GB	Power	
Storage		AC adapter power	330 W
Total storage capacity *	2 TB	AC adapter frequency	50/60 Hz
Storage media *	SSD	AC adapter input voltage	100 - 240 V
Total SSDs capacity	2 TB	USB Power Delivery (USB PD)	✓
Number of SSDs installed	2	Security	
SSD capacity	1 TB	Trusted Platform Module (TPM)	✓
SSD interface	PCI Express 4.0	Weight & dimensions	
NVMe	✓	Width	357 mm
SSD form factor	M.2	Depth	254 mm
Optical drive type *	✗	Height (front)	2.3 cm
Card reader integrated	✓	Height (rear)	2.99 cm
Compatible memory cards	MicroSD (TransFlash)	Weight *	2.5 kg
Graphics		Packaging data	
Discrete GPU manufacturer	NVIDIA	Package width	108 mm
Discrete graphics card model *	NVIDIA GeForce RTX 5080	Package depth	429 mm
Discrete graphics card memory	16 GB	Package height	339 mm
Discrete graphics memory type	GDDR7	Package weight	5.2 kg
		Packaging content	
		AC adapter included *	✓
		Number of batteries	1
		Logistics data	
		Products per shipping (inner) case	1 pc(s)
		Other features	
		Batteries included	✓
		Warranty period	2 year(s)



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